School of Computing Science & Engineering

Program name: B.Tech Computer Science & Engineering

Program Structure 2023-24

ASSESSMENT PATTERNS (Common for All Semesters)

COURSES

COURSES										
		CONTINUOU	S INTERNA	L EXAMIN	NATION (CIE)			Semester End Examination (SEE)	
		Rubric and	d Assessme	ent Tools				T-4-1 CIE		
Course Type	QUIZ 1/AAT	CAT1	QUIZ2/A AT	CAT2	LAB	LAB Test	Course- based Project	Total CIE Marks	Max. Marks	
Theory	20	30	20	30	0	0	0	100	100	
Blended	0	30	100	100						
Comprehensive	0	30	0	30	20	0	20	100	100	
		I	Rubric for C	ourse-based	l Project					
	_		CIE M	arks (Rubric	2)					
S.No.	Type of Assessment Tools	PPP	Total							
1	Course-based Project Work	5								

PASS REQUIREMENTS Condition1-Continuous

Internal Examination (CIE) -Should secure 30% of marks in every individual assessment in the CIE and 40% in total; otherwise not permitted to appear in SEE; Condition2-Semester End Examination (SEE) or End Term Examination (ETE)-should secure 40% in the SEE/ETE

Condition3-

	e overall marks both CIE and SEE together should be more than or equal to 40% to declare pass in a Course.									
*-: Students have to se applies to all assesment		each assessment to eligible for appearing in E	TE/SEE.(minim	um 3 marks in (QUIZ 1/AAT :	and QUIZ2/	AAT individua	ally & minimum	12 marks each in b	ooth CAT1 & CAT2). Same rule
**-: Student need to see	cure minimum 40 marks sepa	rately in ETE/SEE along with above mentioned	ed criterion to pa	ass the respectiv	e Course.					
PPP(Preliminary Project Plan)		approve the PPP and permit the student	the project's o	objectives, rele , and expected	evance to the	e program	merit, and co	onformity to cu	ırrent industry/ge	nown parameters. It outlines overnment policy, proposed t).budget, and, etc.
TS1 (Technical Seminar 1)		After Quiz-1	After the	he second Qui	z, the course	e faculty m	nember shoul	d take 1st revi	ew of th status b	yh all the student groups
TS2 (Technical Seminar 2)	After CAT-1 After CAT1 the course faculty member should take trhe 2nd review of the status byh all the student groups									
VIVA		After CAT-2	After	CAT2 the co	ourse faculty	member s	hould take tr	he 2nd review	of the status byl	all the student groups
			,	RU	BRICS			,		
Lab	Rubrics 1 (marks)	Rubrics 2 (marks)	Rubrics 3	(marks)	Rub	rics 4 (m	arks)	Rubrics 5 (marks)	To be defined by	the respective faculty handling the course
Project	Rubrics 1 (marks)	Rubrics 2 (marks)	Rubrics 3	3 (marks)	Rub	rics 4 (m	arks)	Rubrics 5 (marks)	To be defined by	the respective faculty handling the course
			gram St	tructure	e 2023-	24				
		First	Semester						ı	
				Cred	lit Structur	e				

				Cred					
Sl. No.	Course Code	Course Title	L	Т	P	s	Credits	Hours	Туре
1	Will be given by ERP	Engineering Mathematics-I	3	0	1	0	4	5	
2		Modern Physics/Semi conductor Physics / Condensed Matter Physics/	3	0	1	0	4	5	

	WIII DE GIVEH DY EAT	Biology for Engineers/Nano Technology/Alternate Enery/Synthetic Chemistry /Biomaterials and Implants	3	0	0	0	3	3	
3	Will be given by ERP	Basic Electrical & Electronics Engg. / Engineering Graphics and Introduction to Digital Fabrication	3	0	1	0	4	5	
4	Will be given by ERP	Programming for Problem Solving - C	3	0	1	1	5	8	Skill
5	Will be given by ERP	YOGA / Environmental Impact Analysis	2	0	0	0	0	2	
		Total credits					17	28	

	Second Semester									
				Cred	lit Structur	e				
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type	
1	Will be given by ERP	Engineering Mathematics-II	3	0	1	0	4	5		
2	Will be given by ERP	Discrete Mathematics / Engineering Mechanics	3	0	0	0	3	3		
3	Will be given by ERP	Basic Electrical & Electronics Engg. / Engineering Graphics and Introduction to Digital Fabrication	3	0	1	0	4	4		
	Will be given by ERP	Modern Physics/Semi conductor Physics / Condensed Matter Physics/	3	0	1	0	4	5		
4	Will be given by ERP	Biology for Engineers/Nano Technology/Alternate Enery/Synthetic Chemistry /Biomaterials and Implants	3	0	0	0	3	3		
5	Will be given by ERP	Engineeering Workshop / Introduction of Digital System	2	0	1	0	3	4		
6	Will be given by ERP	OOPS	3	0	1	1	5	8	EMP	
7	Will be given by ERP	Communication Skills for Engineers	0	0	2	0	2	4	Skill	
8	Will be given by ERP	YOGA / Environmental Impact Analysis	2	0	0	0	0	2		
		Total credits					24	38		

		Third	Semester						
				Cred	it Structur	e			
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type
1	Will be given by ERP	Data Communication and Networking	3	0	1	0	4	5	EMP
2	Will be given by ERP	Data Base management System	3	0	1	0	4	5	EMP
3	Will be given by ERP	Data Structures & Algorithms	3	0	1	0	4	5	EMP
4	Will be given by ERP	Programming Ability and Logic Building -1/Theory & Practices of Entrepreneurship /Competitive Mathematics/Introduction of Digital Marketing	3	0	1	1	5	8	
5	Will be given by ERP	Design Thinking	2	0	0	0	2	0	EP
<u> </u>		Elective-0	1						
6	Will be given by ERP	Cryptographic Fundamentals	3	0	0	0	3	3	EMP
6	Will be given by ERP	Software Engineering	3	0	0	0	3	3	EMP

6	Will be given by ERP	Cyber Security (Infosys)	3	0	0	0	3	3	EMP
6		Optimization Techniques	3	0	0	0	3	3	EMP
6	Will be given by ERP	Artificial Ielligence	3	0	0	0	3	3	EMP
	Will be given by FRP	Comunication Competency & Aptitude Building -I	0	0	2	0	2	4	Skill
7	Will be given by ERP	Professional Ethics & Human values	2	0	0	0	0	2	
	•	Total credits			•		24	26	

	Fourth Semester									
				Cred	lit Structur	e				
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type	
1	Will be given by ERP	Operating System	3	0	1	0	4	5	EMP	
2	Will be given by ERP	Computer Graphics	3	0	1	0	4	5	EMP	
3	Will be given by ERP	Analysis and Design of Algorithms	3	0	1	0	4	5	EMP	
4	Will be given by ERP	Programming Ability and Logic Building 'II/Exploring Business opportunity and Market Survey/Programming: A Step Ahead /Social Media Marketing	3	0	1	1	5	8		
5	Will be given by ERP	Internship	0	0	1	0	1	2	Skill	
		Elective-	2		•					
6	Will be given by ERP	Internet of Things (Ardino/ Rasberry Pi)	3	0	1	0	4	5	EMP	
6	Will be given by ERP	Data Sciences (R Prog)	3	0	1	0	4	5	EMP	
6	Will be given by ERP	Data Mining and Warehousing (Weka)	3	0	1	0	4	5	EMP	
6	Will be given by ERP	Network Design and Management (Cisco)	3	0	1	0	4	5	EMP	
7	Will be given by ERP	Comunication Competency & Aptitude Building -2	0	0	2	0	2	4	Skill	
	<u>-</u>	Total credits					24	25		

	Fifth Semester										
				Cred	lit Structur	e					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type		
1	Will be given by ERP	Theory of Computation	3	0	0	0	3	3	EMP		
2	Will be given by ERP	Software Engineering & Testing Methodologies	3	0	0	0	3	3	EMP		
3	Will be given by ERP	Programming Ability and Logic Building 'III/Legal Incorporation & Incubation/Digital & Operating System/Social Engine Optimization/	3	0	1	1	5	8			
4	Will be given by ERP	Comunication Competency & Aptitude Building -3	0	0	2	0	2	4	Skill		
5	Will be given by ERP	Major Project	2	0	0	0	2	0	Skill		
		Elective-	3								
6	Will be given by ERP	Microprocessor & Interfacing	3	0	0	0	3	3	EMP		
6	Will be given by ERP	Quantum Computing	3	0	0	0	3	3	EMP		
6	Will be given by ERP	Soft Computing	3	0	0	0	3	3	EMP		
6		Machine Learning	3	0	0	0	3	3	EMP		

6	Will be given by ERP	Modeling and Simulation	3	0	0	0	3	3	EMP	
		Elective-	4							
7	7 Will be given by ERP Cloud Application Bevelopment 3 0 1 0 4 5									
7	Will be given by ERP	Adhoc & Sensors Netwoks	3	0	1	0	4	5	EMP	
7	Will be given by ERP	Statistical Analysis using R	3	0	1	0	4	5	EMP	
7	Will be given by ERP	Block Chain	3	0	1	0	4	5	EMP	
7	Will be given by ERP	Software Defined Network	3	0	1	0	4	5	EMP	
	•	Total credits				•	22	22		

	Sixth Semester										
				Cre	dit Structur	e					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type		
1	Will be given by ERP	Compiler Design	3	0	0	0	3	3	EMP		
2	Will be given by ERP	Campus 2 Corporate Training	0	0	2	0	2	4	Skill		
3	Will be given by ERP	Web Technology	3	0	1	1	5	8	EMP		
4	Will be given by ERP	Coding Skills Building -I /Market Launch and Funding/An insight into Database and Computer Networks/ ERP & CRM	3	0	1	1	5	6			
5	Will be given by ERP	Internship	0	0	1	0	1	2	Skill		
6	Will be given by ERP	Major Project	0	0	0	0	2	0	Skill		
	•	Elective-	5	•	•	•	•	•			
6	Will be given by ERP	Digital Signal Processing	3	0	0	0	3	3	EMP		
6	Will be given by ERP	Object Oriented Analysis & Design	3	0	0	0	3	3	EMP		
6	Will be given by ERP	E-Business	3	0	0	0	3	3	EMP		
6	Will be given by ERP	Network Operating System	3	0	0	0	3	3	EMP		
6	Will be given by ERP	Robotics Process automation	3	0	0	0	3	3	EMP		
7	Will be given by ERP	Creativity, Innovation & Entre'ship	3	0	0	0	0	3	EP		
		Total credits					21	26			

	Seventh Semester										
				Cred	lit Structur	e					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Type		
1	Will be given by ERP	MOOC-01	3	0	0	0	3	3	EMP		
2	Will be given by ERP	Coding Skills Building - II/Start Up launch and Market Penetration - Managing Family Business/Beyond Compilation/Advanced web designing	0	0	3	0	3	6			
3	Will be given by ERP	Research Methodology & IPR	3	0	0	0	3	3	EMP		
4	Will be given by ERP	Capstone Project	0	0	0	0	4	8	Skill		
		Elective-	6								
5	Will be given by ERP	Enterprise Resource Planning	3	0	1	0	4	5	EMP		
5	Will be given by ERP	Deep Learning	3	0	1	0	4	5	EMP		
5	Will be given by ERP	Satellite Image Analysis	3	0	1	0	4	5	EMP		

5	Will be given by ERP UI&UX	3	0	1	0	4	5	EMP
Total credits							20	

Eighth Semester											
			Credit Structure								
Sl. No.	Course Code	Course Title	L	Т	P	s	Credits	Hours	Type		
1	Will be given by ERP	Industrial Internship	0	0	2	0	2	4	Skill		
2	Will be given by ERP	Capstone Project	0	0	9	0	9	18	Skill		
Total credits							11	20			